

Client Name: Riverside City - WQCP

Contact: Kevin Sudds Address: 5950 Acorn St.

Riverside, CA, 92504

Analytical Report: Page 1 of 1

Project Name: RWQCP-ADEQ TS/TVS

Project Number: ADEQ TS/TVS

Work Order Number: B9H0180

Report Date: 14-Aug-2019 Received on Ice (Y/N) Yes Temp: 4 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	<u>Matrix</u>	Date Sampled	<u>By</u>	Date Submitted	$\underline{\mathbf{B}}\underline{\mathbf{y}}$
B9H0180-01	Comb Dig Eff	Sludge	8/1/19 9:39	Client	8/1/19 15:30	E Aguilar
B9H0180-02	Blended Solids	Sludge	8/1/19 9:50	Client	8/1/19 15:30	E Aguilar
B9H0180-03	DAF #2	Sludge	8/1/19 9:43	Client	8/1/19 15:30	E Aguilar

Note: Total and Volatile solids analyses were subcontracted to Eurofins TestAmerica- Irvine.

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Tania D. Huizar For Amanda C. Porter

e-Case Narrative+ COC.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

Page 1 of 1

Amanda Porte

CA ELAP No. 2698

EPA No. CA00102



Client Name: Riverside City - WQCP

Contact: Kevin Sudds Address: 5950 Acorn St.

Riverside, CA, 92504

Analytical Report: Page 1 of 1

Project Name: RWQCP-ADEQ TS/TVS

Yes

Project Number: ADEQ TS/TVS

Work Order Number: B9H0180

Report Date: 14-Aug-2019 Received on Ice (Y/N)

Temp: 4 °C

E.S. Babcock & Sons, Inc. Environmental Laboratories (951) 653-3351 FAX (951) 653-1662 www.babcocklabs.com

Chain of Custody & Sample Information Record

Client:	Riverside City	-WQCP		Conf	tact:	Ani	cia '	Yam	bot			_					_			Phone No.	(951)351-6016 Additional Reporting Requests
AX No.				Ema	il:	AY	amb	ot@	river	side	ca.	gov	ě								Include QC Data Package: Yes
Project Name:	ADEQ	QCP		Turn		und	Tim	e:			outir	_		3-5 D	ay Rush	*48 H	our		24 Ho	our Rush Additional Criarges May Apply	FAX Results:
rojest Essation				Lub	# 0	f Cor	tain	ers		L.		mple	T	1000000		Maria de la constante de la co					
	Sampler Informati	on		\vdash	& P	rese	rvati	ves	-	· s	1	ype	\vdash		nalys	is Re	ques	sted		Matrix	Notes
Name										Containers			ted							DW = Drnking Water WW = Wastewater	
Employer: Signature:				Unpreserved H2SO4		3	nAcetate			t of Co	e .	aldı I	Analysis Requested	% Total Solids	% Volatile Solids					GW = Groundwater S = Soil SG = Sludge	
111028 251 400007		T	_	nprese 2SO4	CI NO3	a2S20	aOH/Z	CAA		Total # of	Routin	Resan	nalysis	Total	Volati					L = Liqu d	
1000	mple ID Dig EFF	8/1/19	9:39	D II	TI	Z 2	z	ZΣ	+	1	X	- 0,	1 1		X		H	+	-	M = Miscellameous	% Total Volatile Solids must be
Com	DIG EFF	8/1/19	1.51	^		H	\forall	+	H	'		+	Н	<u>X</u>	^	-	Н	+	H	56	reported as percentage of
Blend	led Solids	8/1/19	9:50	x		Ħ	Ħ	+		1	x	1	Ħ	X	х		П	+	H	SG	Total Solids
							П		П	Г	П		П				П		П		Samples must also
D	AF #2	8/1/19	9:43	x			П	T	П	1	x		П	Х	х		П		П	SG	be analyzed by
							П				П		П								Arizona Certified
323		1 1				П															Laboratory
				+			+	+	H	-	H	+		_			H	+			
Relinquished		Print Name				<u>_</u>		_	Time				-	Rece	ived I	By (Si	gn)		_		rint Name / Company
1118	SIA	gv.1 5 81	WHC	P		3	110		3:2	D	_				\nearrow	1			_	C	1508 (854)

(For Lab Use Only)	Sample Integrity I	Jpon Receip				Lab Notes
	ubmitted on Ice? ly Seal(s) Intact?	Yes Yes	No No		Temperature °C	
S	sample(s) Intact?	Yes	No	1530	Cooler Blank	

B9H0180 Rc'd: 08/01/2019 15:30





Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

Laboratory Job ID: 440-247282-1 Client Project/Site: B9H0180

For:

Babcock Laboratories, Inc. 6100 Quail Valley Court Riverside, California 92507

Attn: Amanda Porter

Authorized for release by: 8/12/2019 10:49:58 AM

Christian Bondoc, Project Manager I (949)260-3218

christian.bondoc@testamericainc.com

.....LINKS

Review your project results through

Total Access

Have a Question?

Ask
The
Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Laboratory Job ID: 440-247282-1

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	5
Method Summary	6
Lab Chronicle	7
QC Sample Results	8
QC Association Summary	9
Definitions/Glossary	10
Certification Summary	11
Chain of Custody	12
Receipt Checklists	13

Sample Summary

Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

Job ID: 440-247282-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-247282-1	B9H0180-01	Solid	08/01/19 09:39	08/05/19 11:55	
440-247282-2	B9H0180-02	So l id	08/01/19 09:50	08/05/19 11:55	
440-247282-3	B9H0180-03	So l id	08/01/19 09:43	08/05/19 11:55	

Case Narrative

Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

Job ID: 440-247282-1

Job ID: 440-247282-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative 440-247282-1

Comments

No additional comments.

Receipt

The samples were received on 8/5/2019 11:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

The temperature of the cooler at receipt was 3.0° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client Sample Results

Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

Lab Sample ID: 440-247282-1

Matrix: Solid

Job ID: 440-247282-1

Client Sample ID: B9H0180-01 Date Collected: 08/01/19 09:39

Date Received: 08/05/19 11:55

General Chemistry Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Percent Solids** 0.1 0.1 08/07/19 00:12 2.5 **Total Volatile Solids** 71 0.050 0.050 % 08/08/19 10:11 0.050 % 08/08/19 10:11 **Total Solids** 2.4 0.050

Client Sample ID: B9H0180-02

Date Collected: 08/01/19 09:50 Date Received: 08/05/19 11:55

Lab Sample ID: 440-247282-2

Matrix: Solid

General Chemistry

Result Qualifier MDL Unit Dil Fac Analyte RL D Prepared Analyzed **Percent Solids** 0.1 0.1 % 08/07/19 00:12 4.0 **Total Volatile Solids** 0.050 0.050 % 08/08/19 10:11 **78 Total Solids** 3.9 0.050 0.050 % 08/08/19 10:11

Client Sample ID: B9H0180-03

Date Collected: 08/01/19 09:43 Date Received: 08/05/19 11:55

Lab Sample ID: 440-247282-3

Matrix: Solid

LOL

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	4.9	0.1	0.1	%			08/07/19 00:12	1
Total Volatile Solids	80	0.050	0.050	%			08/08/19 10:11	1
Total Solids	4.8	0.050	0.050	%			08/08/19 10:11	1

Method Summary

Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

Job ID: 440-247282-1

Method	Method Description	Protocol	Laboratory
Moisture	Percent Moisture	EPA	TAL IRV
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL I RV

ł

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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Lab Chronicle

Client: Babcock Laboratories, Inc.

Client Sample ID: B9H0180-01

Batch

Type

Analysis

Analysis

Batch

Method

Moisture

SM 2540G

Date Collected: 08/01/19 09:39

Date Received: 08/05/19 11:55

Project/Site: B9H0180

Prep Type

Total/NA

Total/NA

Job ID: 440-247282-1

Lab Sample ID: 440-247282-1

Matrix: Solid

TAL IRV

08/08/19 10:11 XL

Dil Initial Final Batch Prepared Run **Factor** Amount Amount Number or Analyzed Analyst 561692 08/07/19 00:12 QTN TAL IRV

561998

Client Sample ID: B9H0180-02 Lab Sample ID: 440-247282-2

Date Collected: 08/01/19 09:50 Matrix: Solid

1

Date Received: 08/05/19 11:55

Batch Batch Di Initial Final Batch Prepared Prep Type Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab 561692 08/07/19 00:12 QTN Total/NA Analysis Moisture TAL IRV Total/NA Analysis SM 2540G 561998 08/08/19 10:11 XL TAL IRV 1

Client Sample ID: B9H0180-03 Lab Sample ID: 440-247282-3

Date Collected: 08/01/19 09:43 Matrix: Solid

Date Received: 08/05/19 11:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			561692	08/07/19 00:12	QTN	TAL IRV
Tota l /NA	Analysis	SM 2540G		1			561998	08/08/19 10:11	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Job ID: 440-247282-1 Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

Lab Sample ID: 440-247282-1 DU Client Sample ID: B9H0180-01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 561692

	Sample	Sample	DU	DU				RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit	
Percent Solids	2.5		2.5		%		0.5	20	

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 440-561998/1 Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 561998

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Volatile Solids ND 0.050 0.050 % 08/08/19 10:11

Lab Sample ID: 440-247282-1 DU Client Sample ID: B9H0180-01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 561998

-	Sample	Sample	DU	DU				RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit	
Total Volatile Solids	71		70.8		%		 0.6	10	
Total Solids	2.4		2.40		%		0.2	10	

QC Association Summary

Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

Job ID: 440-247282-1

General Chemistry

Analysis Batch: 561692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-247282-1	B9H0180-01	Total/NA	Solid	Moisture	
440-247282-2	B9H0180-02	Total/NA	Solid	Moisture	
440-247282-3	B9H0180-03	Tota l /NA	Solid	Moisture	
440-247282-1 DU	B9H0180-01	Total/NA	Solid	Moisture	

Analysis Batch: 561998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-247282-1	B9H0180-01	Total/NA	Solid	SM 2540G	
440-247282-2	B9H0180-02	Tota l /NA	Solid	SM 2540G	
440-247282-3	B9H0180-03	Tota l /NA	Solid	SM 2540G	
MB 440-561998/1	Method Blank	Total/NA	Solid	SM 2540G	
440-247282-1 DU	B9H0180-01	Tota l /NA	Solid	SM 2540G	

Definitions/Glossary

Job ID: 440 Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

0-247282-1	
0-241202-1	

Glossary

TEQ

Toxicity Equivalent Quotient (Dioxin)

Abbreviation	These commonly used abbreviations may or may not be present in this report.				
п	Listed under the "D" column to designate that the result is reported on a dry weight basis				
%R	Percent Recovery				
CFL	Contains Free Liquid				
CNF	Contains No Free Liquid				
DER	Duplicate Error Ratio (normalized absolute difference)				
Dil Fac	Dilution Factor				
DL	Detection Limit (DoD/DOE)				
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample				
DLC	Decision Level Concentration (Radiochemistry)				
EDL	Estimated Detection Limit (Dioxin)				
LOD	Limit of Detection (DoD/DOE)				
LOQ	Limit of Quantitation (DoD/DOE)				
MDA	Minimum Detectable Activity (Radiochemistry)				
MDC	Minimum Detectable Concentration (Radiochemistry)				
MDL	Method Detection Limit				
ML	Minimum Level (Dioxin)				
NC	Not Calculated				
ND	Not Detected at the reporting limit (or MDL or EDL if shown)				
PQL	Practical Quantitation Limit				
QC	Quality Control				
RER	Relative Error Ratio (Radiochemistry)				
RL	Reporting Limit or Requested Limit (Radiochemistry)				
RPD	Relative Percent Difference, a measure of the relative difference between two points				
TEF	Toxicity Equivalent Factor (Dioxin)				

Accreditation/Certification Summary

Client: Babcock Laboratories, Inc.

Project/Site: B9H0180

Laboratory: Eurofins TestAmerica, Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State		CA01531	06-30-20
Alaska	State Program	10	CA01531	06-30-20
Arizona	State Program	9	AZ0671	10-14-19
California	LA Cty Sanitation Districts	9	10256	06-30-20
Ca l ifornia	State Program	9	CA ELAP 2706	06-30-19 *
Guam	State Program	9	Cert. No. 19-005R	01-23-20
Hawaii	State Program	9	N/A	01-29-20
Kansas	NELAP	7	E-10420	07-31-20
Kansas	NELAP		E-10420	07-31-20
Nevada	State Program	9	CA015312019-5	07-31-19 *
New Mexico	State Program	6	N/A	01-29-20
Oregon	NELAP	10	4028	01-29-20
US Fish & Wildlife	Federa l		058448	07-31-20
US Fish & Wi ldl ife	US Federal Programs		058448	07-31-20
USDA	Federa l		P330-18-00214	07-09-21
USDA	US Federal Programs		P330-18-00214	07-09-21
Washington	State Program	10	C900	09-03-19

Job ID: 440-247282-1

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

SUBCONTRACT ORDER

Printed: 8/2/2019 17:24

Babcock Laboratories, Inc.

B9H0180

RECEIVING LABORATORY:

SENDING LABORATORY:			RECEIVING LABOR	RATORY:	
Babcock Laboratories, Inc. 6100 Quail Valley Court Riverside, CA 92507-0704 Phone: (951) 653-3351			17461 Derian Avenue Irvine, CA 92614-58 Phone :(949) 261-10	17 22	
Fax: (951) 653-1662 Project Manager: Amanda	C. Porter		Fax: (949) 261-1228		
J Flag, MDL Report ++SUBCONTRACT TO CAS- TS/TVS ++ASK PM for COC++ Login - 10 Day TAT Always	,	xpires Regulatory Days Past Date Sampled	Laboratory ID	Comments	
Sample ID: B9H0180-01 Sludge		Sampled: 08/01/19 09:39	Comb Dig Eff		Proj.No.: ADEQ TS/TVS
Subout Containers Supplied 500 mL Poly Unpres (A)	08/13/19 23:59	08/11/19 09:39	Total Solids & Vo	latile Solids (as percentag	ge of total)
Sample ID: B9H0180-02 Sludge		Sampled: 08/01/19 09:50	Blended Solids		Proj.No.: ADEQ TS/TVS
Subout Containers Supplied: 500 mL Poly Unpres (A)	08/13/19 23:59	08/11/19 09:50	Total Solids & Vo	latile Solids (as percentag	ge of total)
Sample ID: B9H0180-03 Sludge		Sampled: 08/01/19 09:43	DAF#2		Proj.No.: ADEQ TS/TVS
Subout Containers Supplied: 500 mL Poly Unpres (A)	08/13/19 23:59	08/11/19 09:43	Total Solids & Vo	latile Solids (as percentag	ce of total) 13 5/5/19
		440-247282 Chain of Cue	tody		DI '
					2.8/30 IP8
		Containers Intact:	YesNo	Samples Preserved Pro	operly:YesNo
Samples Received at	-	Labels / COC Agree:	YesNo	Custody Seals Present:	
Please forward all acknowl NO HARDCOPIES PLEAS		mple receipt, final re	ports and invoices to	data@babcocklabs.c	<u>om</u> 51/4
Released By	8 / S	119	Received By Received By	Dar Dar	105/19 1155
Released By Fed	10x 494	16 6443 P	Received By	Dai	Page 1 of 1

Login Sample Receipt Checklist

Client: Babcock Laboratories, Inc.

Job Number: 440-247282-1

Login Number: 247282 List Source: Eurofins TestAmerica, Irvine

List Number: 1

Creator: Bonta, Lucia F

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	